



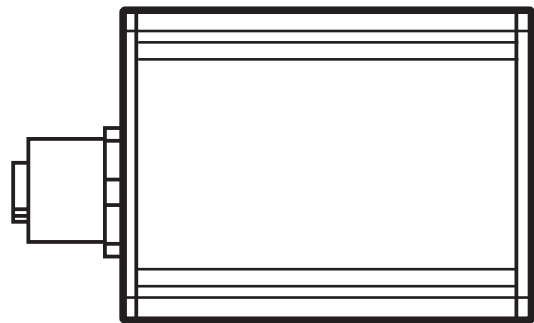
Operating instructions
IO-Link interface

E30390

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1 Preliminary note

Technical data, approvals, accessories and further information at www.ifm.com

1.1 Symbols used

► Instructions

> Reaction or result

[...] Designation of keys, buttons or indications

→ Cross-reference



Important note

Non-compliance may result in malfunction or interference.



Information

Supplementary note

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2 Safety instructions

- Read this document before setting up the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose (→ Functions and features).
- Only use the product for permissible media (→ Technical data).
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property can occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, operation and maintenance of the product must be carried out by qualified personnel authorised by the machine operator.
- The device and the accessories (e.g. cable) must be effectively protected against damage.

3 Functions and features

The interface connects sensors with IO-Link capability to a PC and provides the following options via the IO-Link interface:

- Reading of the current parameter setting.
- Parameter setting of the sensor.
- Reading of the current measured values and further process values.

The interface is not suitable for permanent installation as an automation device.

3.1 Items supplied

- IO-Link interface
- USB cable
- Plug-in power supply
- M12 cable
- Operating instructions

3.2 System requirements

- PC with Microsoft Windows® 7 SP1 / Microsoft Windows® 10
- Free USB 2.0 port
- Software for parameter setting and set-up of IO-Link sensors, LINERECORDER DEVICE:
 - QA0011 (USB stick) (→ 3.3)
 - QA0012 (download) (→ 3.3)

3.3 Software

The following software is suitable for use with this interface:

3.3.1 LINERECORDER DEVICE

The software LINERECORDER DEVICE is supplied with the following items:

- Framework software LINERECORDER DEVICE
- Current set of IODDs
- Driver for interface

4 Installation

You need administrator rights for installation.

- ▶ Connect the interface to the PC via a USB port.
- ▶ Connect the USB stick LINERECORDER DEVICE to the PC or use the download version LINERECORDER DEVICE.
- ▶ Execute the installation file "ifm Software.exe".
- > The Microsoft Windows® hardware wizard is started.
- ▶ Follow the instructions in the program.
Select the following options:
 - Find locally available drivers.
 - Select the driver from the connected USB stick or the download version:

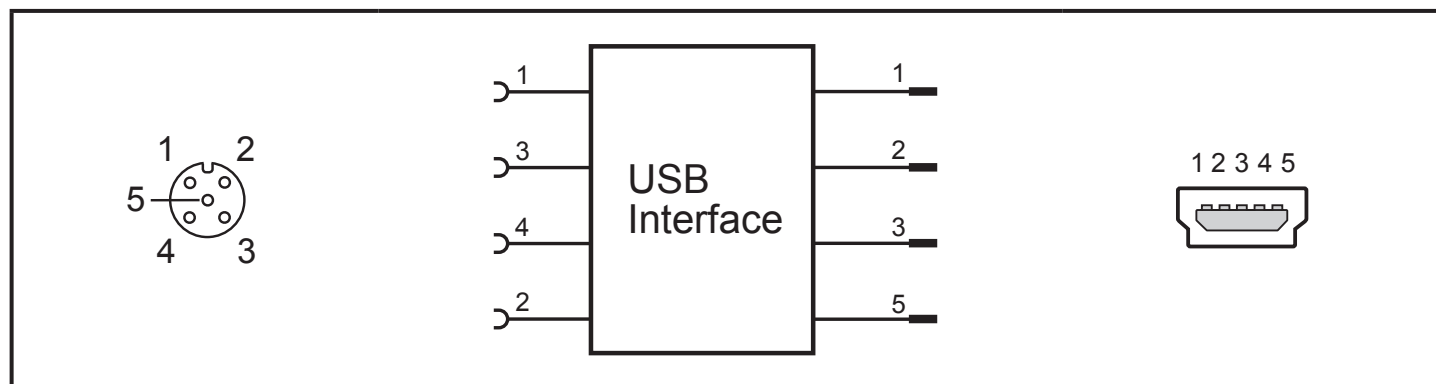
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Current drivers can be found on the manufacturer's website.

5 Electrical connection

5.1 Connect sensor to a PC via the interface



- ▶ Connect the sensor to the interface using the M12 cable.

Socket 1	+ 24 V
Socket 2	CH2 (DI/DO)
Socket 3	GND
Socket 4	IO-Link: CH1 (C/Q)
Socket 5	not connected

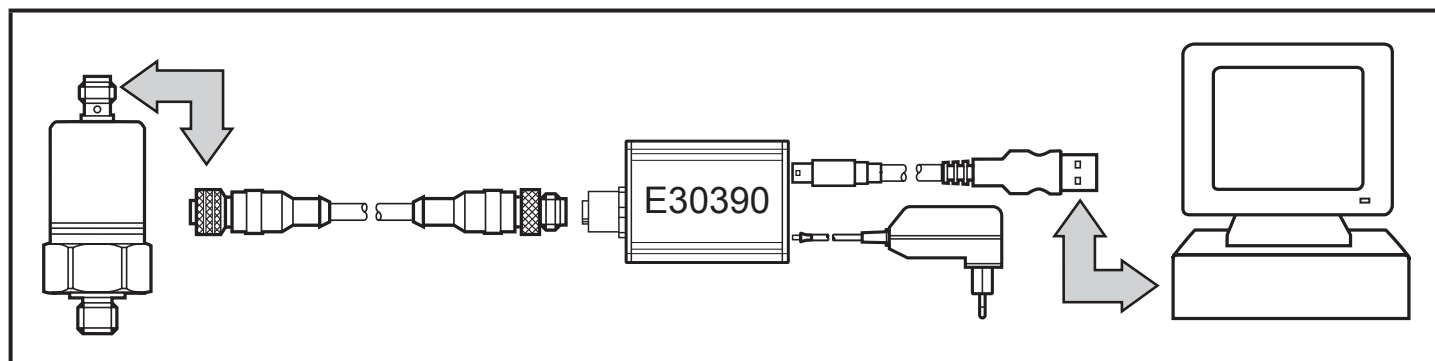
- ▶ Connect the interface to a PC using the USB cable.

5.2 Power supply via an additional plug-in power supply

If a sensor needs a higher current than 80 mA for a short time (e.g. at power-on) or permanently, the power supplied via the USB port is not sufficient.

► Connect the supplied plug-in power supply to the interface.

6 Set-up



- Connect the interface to the sensor and a USB 2.0 port of the PC (→ 5).
- > After a short initialisation period the interface supplies the sensor with operating voltage.
- > If the sensor is addressed via the software LINERECODER DEVICE (→ 3.3) the interface determines the correct communication mode and starts the exchange of data.

If the sensor does not have a suitable communication protocol, no data is exchanged.

7 Operation

LED	Colour	Status	Description
PWR	yellow	on	voltage supply via USB port
		flashing	undervoltage or overload with voltage supply via USB port
CH1 (C/Q)	green	IO-Link mode: flashing slowly	no IO-Link connection
		flashing quickly on	preoperate state IO-Link connection is exchanging data (operate state)
	yellow	on	switching status of the digital output
CH2 (DI/D0)	yellow	on	switching status of the digital output
Error	red	on	error: (short circuit, data transmission error, overload at DIO 1 (C/Q) or DIO 2)

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8 Technical data and scale drawing

Technical data and scale drawing at www.ifm.com.

More information at www.ifm.com